VOLUME 4 - NO. 4 JULY 1996

The Low Band Monitor

July Had It's Moments

The Pacific continues to be the big theme for the North American summer, with stations like **KC6BP, V63CK, ZK1AAU** and **5W0JB** keeping top band enthusiasts happy.

East Coast enthusiasts had a shot at **J28JA** for a few days on 160 meters, with Jeff, **K1ZM** and Bill, **W0ZV** both reporting successful two ways.

Oklahoma's **K7LFY** sent in some extensive summer log data on 40 meters. The Pacific seems to be coming in on 40 meters well past sunrise—this is a very good sign.

Unfortunately, many parts of the U.S. are experiencing very high numbers of thunderstorms this summer, with the State of Colorado being 500 percent higher in tornado sightings compared to 1995 for the month of July.

Catch what you can in August, just make sure that the proper precautions are taken when the storm cells start moving into your area.

In This Issue

• Al Hernandez, **WA3YVN** was kind enough to share the 80 and 160 meter logs and comments from the recent Kermadec. **ZL8RI**, DXpedition with our readers.

This operation provided many low band enthusiasts with a new country.

• Gale, **K3ND,** provides an excellent description of a limited space Low Band Vertical that has provided him with some fine 80 and 160 meter DX in the past few years.

This antenna article is a natural for enthusiasts that lack lots of real estate and have restricted antenna budgets.

• Dietmar, **DL3DXX** encloses some great photos and maps from the recent Christmas Island, **VK9XY** and Cocos Keeling Island, **VK9CR** DXpedition, one of last season's great operations.

Thanks to Charlie, **KY0A**, for providing much needed coordination via the internet to obtain these great photos as the editor was experiencing "computer hell" at the time.

Season Reminder

Subscribers to the *Low Band Monitor* are advised that our formal low band season will begin September 1 of 1996 and end March 31 of 1997.

Our Awards program will continue unchanged as it has in our first three years of publication. Details next month.

There will be one exception. I have decided that there will be a new 160 meter award called the "Bad Boys of Winter", that will recognize 160 meter CQ Zones worked during the season, but only contacts made during major DX Contest Weekends.

Details concerning this new 160 meter award will appear in next month's *Low Band Monitor.*

We think you will like the "Bad Boys of Winter" concept.

Call It Computer Hell

The Internet evolution of the *Low Band Monitor* has continued this month. As I talk to subscribers, I find that my experience described below is fairly typical.

Local Server - After discovering the Web and choking on your monthly AOL invoice, you find a local server.

System Upgrade - The local service provider requires modern communications software, so you purchase the latest software and operating system.

Software Conflict - You find that the new operating system will not run all of your old mission critical software.

New Computer - You reluctantly decide to purchase a separate computer that will allow you to isolate your internet activities from your normal computer activities.

New Modem - You find out that 28.8 V34 modems are routinely supported by the local Internet service providers, so you acquire a new modem.

More RAM - You find out that the new Web browser and E-Mail software that you have selected requires 16m meg of RAM to run in a stable manner. More RAM is purchased and installed.

I started my adventure with a Macintosh II SI with 8 meg of RAM and a 14.4 modem. A Quadra 950 was purchased for this newsletter and the Mac II SI was dedicated to the internet, using System 7.5.3 with PPP and TCP/IP.

Overload - Somewhere along this journey there will be a glitch of some kind that will disable the computer system.

Support Center #1 - You will contact the computer manufacturer, who will advise you that the problem is due to a conflict with the software and you should buy a new system.

Support Center #2 - You will contact the new software manufacturer, who will advise you that the problem is due to the modem. This knowledge is gained after trying every known system diagnostic trick ever conceived and a half dozen software glitch revisions.

Support Center #3 - You will call the 28.8 V34 modem manufacturer, who advises you that the problem is due to the local server or your telephone company.

Support Center #4 - You will call the local server, who will advise you that the problem is due to the computer.

Fame - All of the support centers will know you by your first name. You will also be assigned a four case numbers.

Synergy - The various tidbits of information that were gathered from the support centers for some reason set up a working solution and you finally get connected.

I now have access to the Internet through a local service provider and use Netscape 2.0 for Web browsing at a very economical $20 per month.

Connectivity - After getting spoiled by the 28.8 V34 response from the local service provider, you find out that the local provider's server seems to have more downtime than what you have experienced with AOL.

Dual Addresses - Realizing that this situation is simply unnacceptable, you retain your original E-Mail address with AOL and your new E-Mail address with the local server.

I now have two E-Mail addresses: lance356@aol.com and lance@diac.com that are checked daily.

Conclusion - I strongly recommend that you consider isolating your E-Mail and Web page activity from your regular computer functions. Just buy a second computer.

Communications technology is changing—literally on a daily basis—be flexible and be postured for CONTINUOUS change.

You have been warned!.

Lance Johnson - Editor

The K3ND Lowband Vertical

A Small Lot Performer - by Gale Steward, K3ND

Editor's note: This article originally appeared in the Frankford Radio Club newsletter and has received high praise from those who have tried this system. Low band enthusiasts with limited real estate should give this article their full attention. Now don't be concerned about the materials discussed here—I saw most of the items the last time I visited the Elbert County, Colorado landfill!

Background - The low bands, particularly 80 meters, have been my favorites for a number of years. Some years ago I constructed a vertical for 40 and 80 meters to use in my quest for 5BDXCC. This antenna began as several sections of aluminum TV mast and actually performed quite well.

Over the years I have redesigned and rebuilt this antenna five or six times to improve the electrical performance or make some mechanical improvements. The present design has proved to be an excellent performer on 80 and 160 meters and has remained unchanged for the past 3 years.

I have worked over 100 countries on 80 meters during each of the the past three years and am now at the 216 level alltime.

DXCC has also been achieved on 160 meters with this antenna without the use of Beverages, loops or DSP units.

Although I live in a relatively quiet rural location, I feel that this antenna has played a major roll in my success.

Construction - This is not a step-by-step construction article, but it is written to answer some of the many questions that have been asked about this antenna system. Many types of methods and materials can be used to construct a similar antenna, such as aluminum pipe or tubing, irrigation pipe, or tower sections.

A used *Hy-Gain Hy-Tower* could be stripped of the high band components and then modified to make this vertical. The main consideration here is that this antenna can be constructed with low cost readily available materials.

Diagrams - Figure 1 and 2 show the basic layout and base detail of the system. Figure 3 is the schematic of the remotely switched matching networks that are housed in an enclosure at the antenna base.

From the ground up, the system starts with a 3 foot length of steel pipe buried 2 feet in the ground.

I connected two 1/4 inch thick aluminum plates with a heavy-duty gate hinge. The lower plate is U-bolted to the steel plate and the upper plate is U-bolted to a 3 foot length of heavy wall 3 inch (I.D.) PVC pipe that is used as the base insulator.

The main mast is 42 feet of 3 inch aluminum tubing that is inserted 1 foot into the PVC base insulator and bolted in place.

This mast is in 4 pieces and was originally the boom from a 4 element KLM 40 meter beam that was given to me by **KN3O**.

At the top of the mast I installed an 8 spoked top hat assembly that was constructed from 8 pieces of 3/8 inch 3 foot long aluminum tubing obtained from **W3GM**.

The tips of the spokes are connected together with lengths of #12 teflon wire. Teflon was used because ice will not stick to it.

Directly above this assembly is mounted an 18 foot long tapered aluminum whip, that is actiually an old *Hy-Gain 18V* vertical antenna donated by **W3GM**.

The addition of the whip gives the complete antenna a total height of over 60 feet.

Mast - The mast is guyed at 20 and 41 feet using rope guys. Remember the hinge at the base? I use 20 feet of TV tower mast as a gin pole with a small winch to easily tilt the entire assembly over for modifications or repairs.

Linear Loading - The 160 meter linear loading assembly, inspired by ON4UN, is constructed from two pieces of 1 inch aluminum tubing 14 foot in length.

They are mounted to the mast with a pair of steel and fiberglass mounts that hold them 1 foot from the mast and 1 foot from each other.

They are connected together at the top with the bottom of one connected to the base of the mast at the base insulator and the other to the matching network enclosure.

80 Meter Feed - The 75/80 meter feed connects directly to the mast at the base insulator. The individual relay switched matching networks are built into a home made enclosure and are switched by a control box from the operating position.

Matching Network - The use of copper braid is highly recommended for the matching network connections as well as heavy duty relays since the RF currents can usually be quite high depending on the power level used.

During all aspects of antenna, matching network and radial system construction, use materials and lead dress that minimize losses. This will translate into higher antenna efficiency, especially on 160 meters, where the antenna is approximately 1/8 wavelength in length.

Radial System - Use the most extensive radial system you can install. I add to my radial system every year. My system consists of various random lengths of wire that are laid on the ground.

The length is dictated by surrounding obstructions. I prefer insulated wire for radials and use 6 inch U-shaped wire staple to secure them to the ground.

Conclusion - This is a do-able project that can save you a few hundred dollars when compared to the many existing commercial designs that are on the market.

Here is a list of magazine references that provide some additional information for your project:

- Robert Leo - **W7LR** - "Remote Controlled 40, 80 and 160 Meter Vertical"; *Ham Radio*, May 1984
- David Hollander - **N7RK** - "A Big Signal from a Small Lot"; *QST*, April 1979
- Wayne Sandford Jr. - **K3EQ** - "A Modest 45 foot DX Vertical for 160, 80, 40 and 30 Meters"; *QST*, September 1981.
- John Kaufman - **W1FV** - "Short Verticals for the Low Bands"; *Radiosporting*, January 1986.
- W.J. Byron - **W7DHD** - "Short Vertical Antennas for the Low Bands", *Ham Radio*, May 1983.
- Louis Burke Jr. - **W7JI** - "The 160 meter Top-Loaded Vertical Antenna Revisited"; *CQ*, May 1989.
- Charles Michaels - **W7XC** - "Evolution of the Short Top Loaded Vertical"; *QST*, March 1990.
- Jerry Sevick - **W2FMI** - "Short Ground Radial Systems for Short Verticals"; *QST*, April 1978.
- John Stanley - **K4ERO** - "Optimum Ground Systems for Vertical Antennas"; *QST*, December 1976.
- Alan Christman - **KB8I** - "Ground Systems for Vertical Antennas"; *Ham Radio*, August 1979.

There are also two books that address the subject of short vertical antennas in great detail:

- John Devoldere - **ON4UN** - *Antennas and Techniques for Low Band DXing*, Second Edition, ARRL Press, 1994.
- Paul H. Lee - **N6PL** - *The Amateur Radio Vertical Antenna Handbook*, Second Edition, CQ Press, 1984.

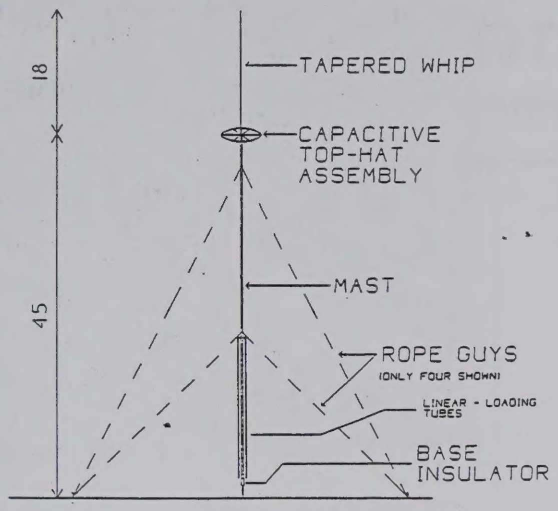


FIGURE 1 - Profile of K3ND Vertical Antenna for 80 and 160 meters.

WARNING

Stay Away From POWER LINES When Installing Antennas!

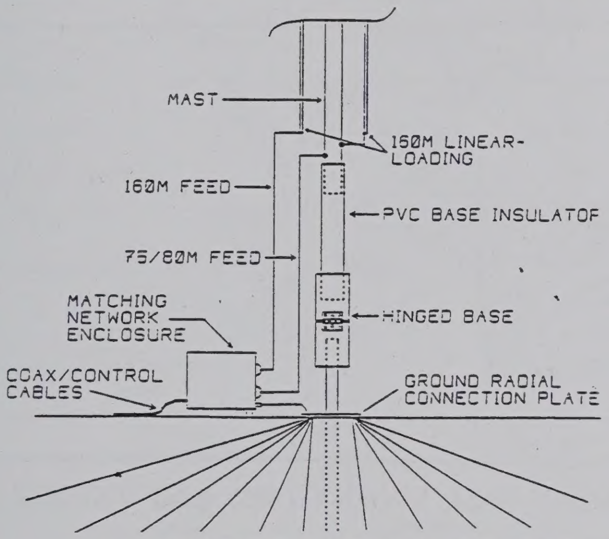
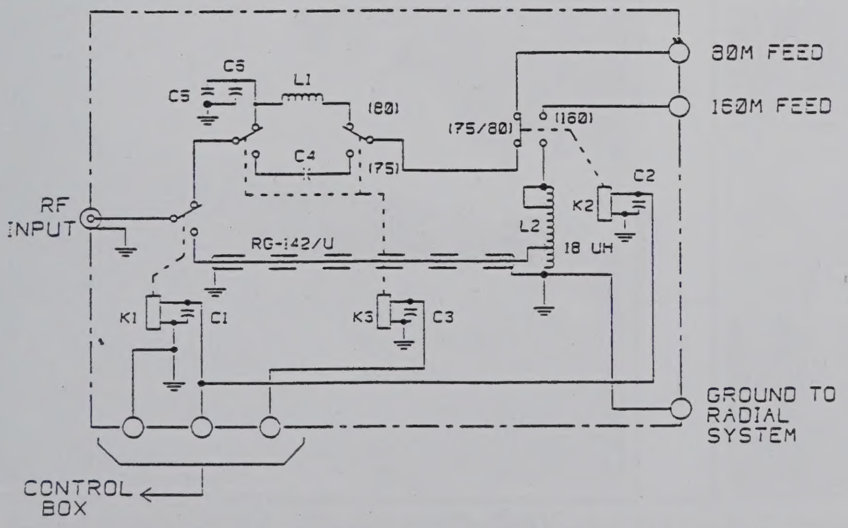


FIGURE 2 - Detail of Base Section of K3ND Vertical Antenna

WARNING

Always Wear Eye Protection When Installing Antennas!



C1. C2. C3. = .01 UF. 400VDC

C4 = 1000 PF. XMIT MICA

C5 = 200 PF. XMIT MICA

C6 = 500 PF. XMIT MICA

L1 = 4 UH. #12 AIRDUX. 2 IN. DIA.

L2 = 18 UH. #12 AIRDUX. 2 IN. DIA.

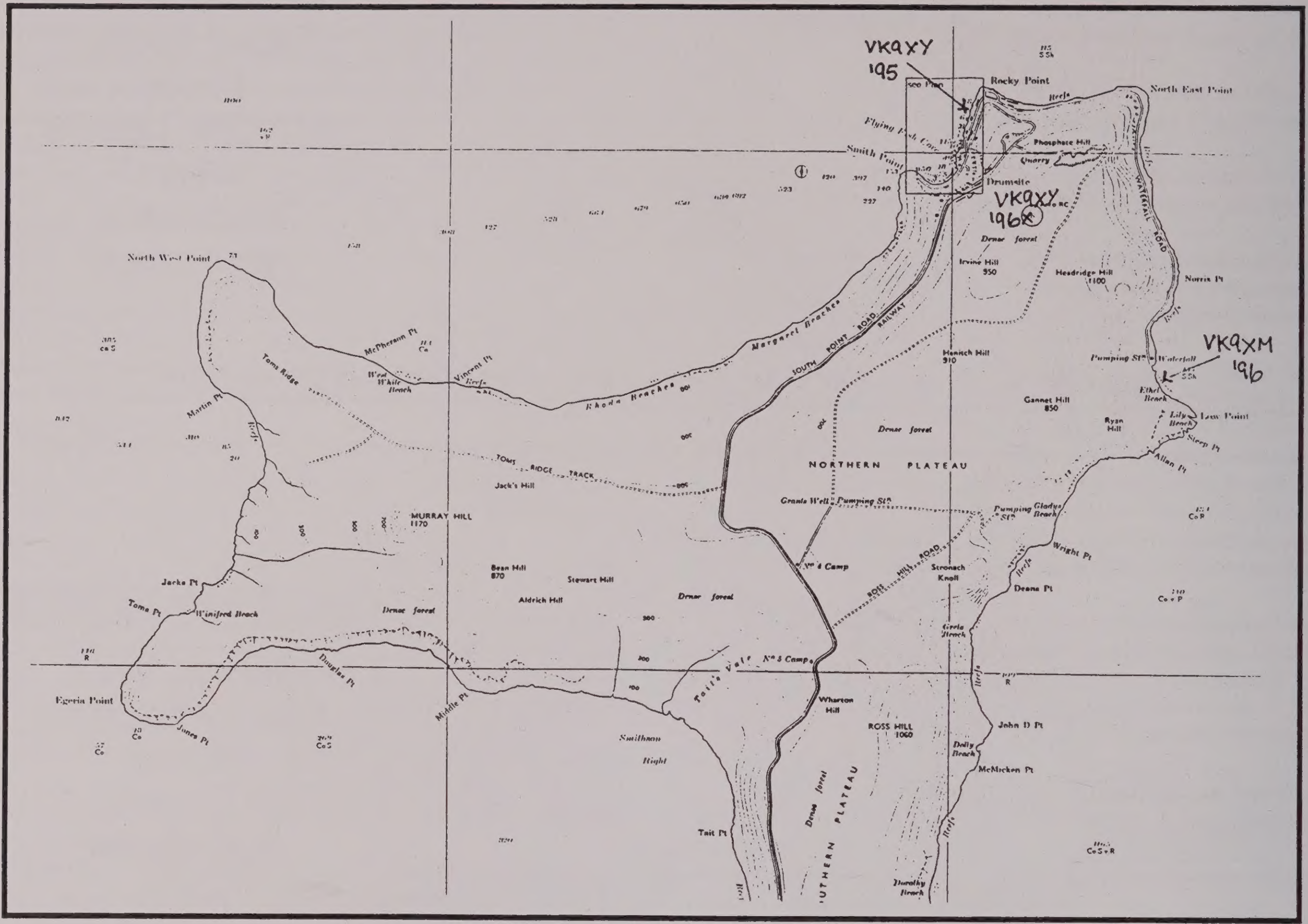
RELAY TRUTH TABLE

BAND	K1	K2	K3
80	0	0	0
75	0	0	1
160	1	1	0

FIGURE 3 - Remote Relay and Matching System of K3ND Vertical Antenna

VK9XY and VK9CR

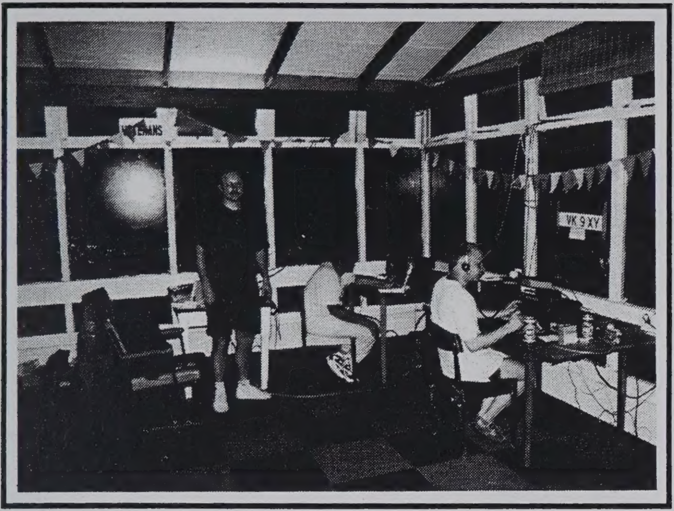
Christmas Island and Coco's Keeling - by Dietmar, DL3DXX



CHRISTMAS ISLAND - Locations of VK9XY (95), VK9XY (96) and VK9XM (96) Christmas Island Dxpeditions.

SUNRISE AT VK9XY - This is the Cricket Club on Christmas Island, QTH for the DXpedition.

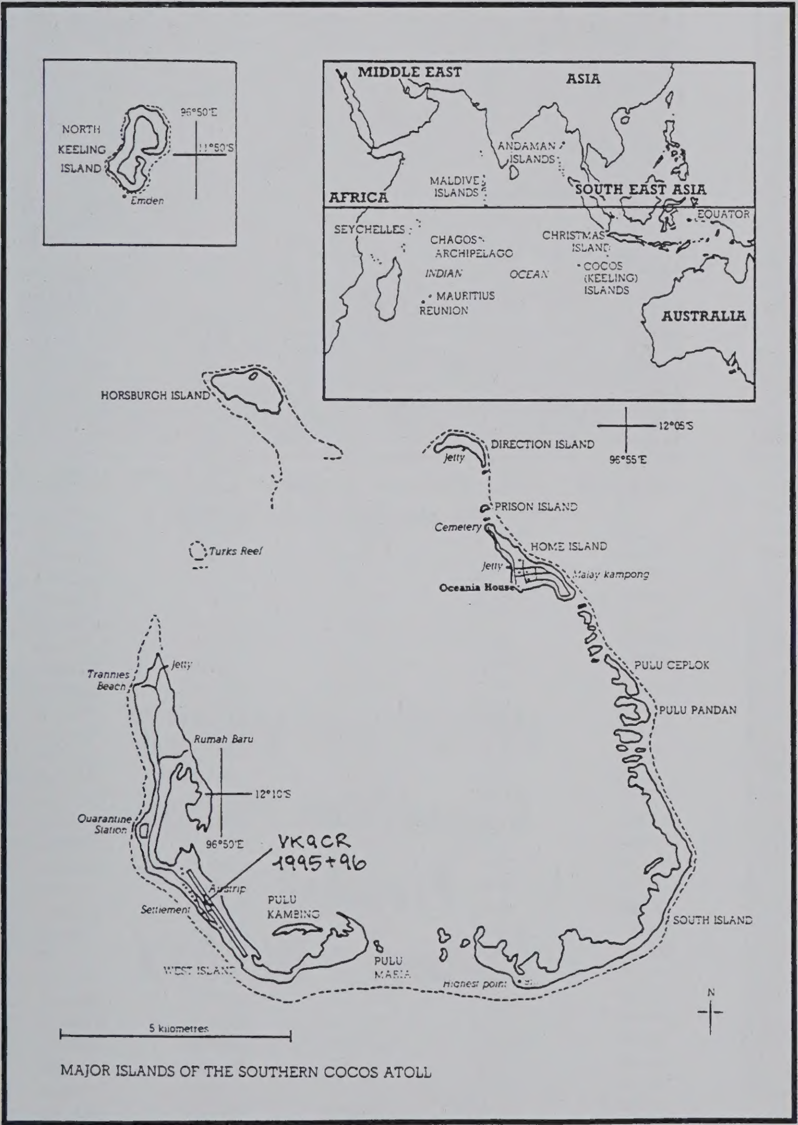
FLYING FISH COVE - View from the local administrators residence on Christmas Island.



VK9XY - Operating from the Cricket Club from left to right are: Dietmar - DL3DXX, Joe - YB6AVE and Jurgen - DL7UFN.

THREE STATIONS - Here's Joe - YB6AVE operating from the third station store room from Christmas Island.

Christmas Island
VK9XY
1996



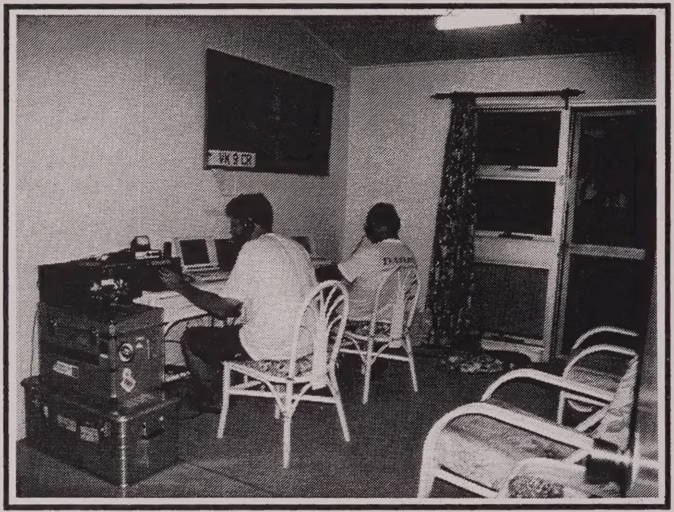
COCOS ISLAND - Location of VK9CR operations from 1995 and 1996.

ROBBER CRAB - This Robber Crab shot was selected for VK9XY QSL image.

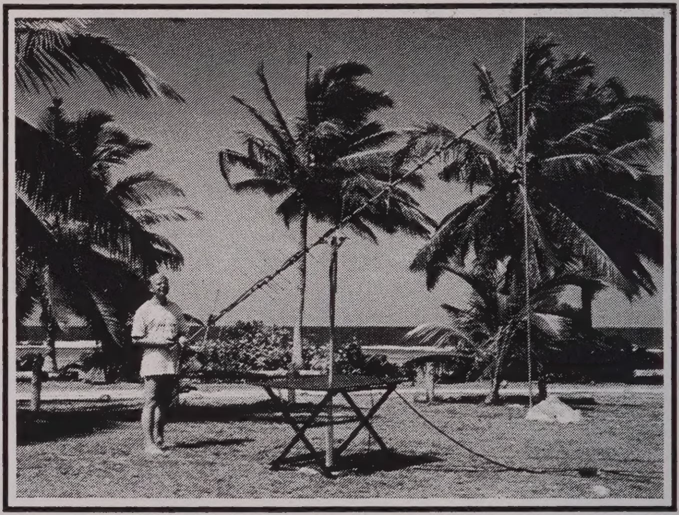
Cocos Keeling Island
VK9CR
1996

VK9CR - Coco's Keeling West Island view looking towards Europe.

COCOS KEELING QTH - QTH on West Island of the VK9CR operation.



VK9CR OPERATING - Operating from Cocos Keeling, VK9CR are Falk - DK7YY and Dietmar - DL3DXX.



SATELLITE - This is Jurgen - DL7UFN looking for the satellite from VK9CR.

WEST ISLAND - Aerial view of West Island taken from South

VK9XY and VK9CR DXpedition Photos Provided by Dietmar - DL3DXX

The 1996 Kermadec DXpedition

A Low Band Prize in May - by Al Hernandez - WA3YVN

Editor's note: The recent ZL8RI DXpedition started out quietly on the low bands and then ended in a flourish of activity. Potent signals were heard all over the U.S. on 80 and 160 meters. I hope your call is in the log.

Background - Raoul Island located half-way between New Zealand and Tonga in the Pacific's volcanic "ring of fire" is the Northern most island in the Kermadec Island Group. It is a bewitched Pacific paradise which has captured the imagination of many would-be DXpeditioners luring some to its shores over the past twenty years. But the island's volcanic core that vents with alarming frequency resulting in earthquakes and eruptions has sounded a caution alarm with the New Zealand Government severely restricting the number of permits that are granted for non-government activities on the island.

Those DXers who are fortunate enough to receive permission to land and operate from Raoul Island are faced with a three to four day journey through the stormy Pacific.

The inclement weather often encountered in this region has adversely affected some recent expeditions - in one case wrecking the expeditioner's ship leaving them stranded on the island for several weeks.

The May 1996 **ZL8RI** Kermadec expedition was more fortunate than some past expeditions. We ran into a ferocious storm one day after departing from Napier, New Zealand. For three days our 80-foot sailing ship the *Evohe* rolled and heaved violently as if to remind us that we too had to pay the price. But as if by and act of kindness to the DX fraternity the weather began to improve twelve hours before arrival and by the time we sighted Raoul Island the seas had calmed down enough to allow landing of all equipment and personnel on schedule.

ZL8RI Kermadec DXpedition
13 May 1996 - 0938Z - 160M CW

7M3HLQ
AA0RS
AA5BL
AA6KE
AA6TT
AA7U
AB0X
AB6LJ
AB6ZV
AI7B
AJ6O
AJ6T
AL7MX
FK8FU
JA0AOQ
JA0CWZ
JA0DAI
JA0DEJ
JA0DWY
JA0GJJ
JA0HXV
JA1BK
JA1CGM
JA1CHD
JA1CHN
JA1ELY
JA1EOD
JA1GV
JA1HQT
JA1HRG
JA1JRK
JA1KQX
JA1NQI
JA1SNF
JA1VIT
JA2BVK
JA2FBY
JA2FJP
JA2IVY
JA2JPA
JA2JW
JA2OLJ
JA2PGC
JA2PJC
JA2TPI
JA2VPO
JA2XW
JA2XZZ
JA3AAW
JA3CSZ
JA3DY
JA3FYC
JA3MHV
JA3ONB
JA3PIS
JA3REK
JA4BXL
JA4CQS
JA4DEN
JA4DGG
JA4DND
JA4EPE
JA4LKB
JA4LXY
JA4MRL
JA4OK
JA5AUC
JA5BGA
JA5CBO
JA5CPI
JA5DQH
JA5JUG
JA5MHD
JA5QJD
JA6BJT
JA6GCE
JA6HUG
JA6IEF
JA7AO
JA7BXS
JA7JWF
JA7LMZ
JA7NI
JA7NX
JA7OEM
JA7ZP
JA8CDT
JA8EAT
JA8EVL
JA8FCG
JA8GMZ
JA8ISU
JA8NFV
JA8RGE
JA8UUB
JA9AIG
JA9AVA
JD1AMA
JE0MUV
JE1CTM
JE1KVD
JE1QYI
JE2LPC
JE2OVG
JE3BIQ
JE7RJS
JF1NZW
JF2EZA
JF2MBF
JF2MNO
JF4VZT
JG1CWY
JG1SFF
JG1TPT
JH0BBE
JH0INP
JH0TYE
JH1CHA
JH1HDT
JH1OGC
JH1ORA
JH1RES
JH2ABL
JH2BFY
JH2CFD
JH2QMT
JH2TPI
JH3CNM
JH3CYZ
JH3IMR
JH4ADK
JH4EZI
JH4IFF
JH4UYB
JH4VDP
JH5FXP
JH5KDY
JH7CFX
JH8LHP
JH8SRI
JI1BEX
JI1FXS
JI1NGC
JI1QIO
JI2KXK
JJ3LLT
JK3AGC
JP1IOF
JR1CUY
JR1CZT
JR1DUP
JR1IJV
JR1RCQ
JR1TNE
JR3VXR
JR5JAQ
JR6PGB
JR7BDQ
JR7TEQ
JR8FEK
K0CS
K0DEQ
K0EIM
K0EU
K0FF
K0HA
K4ODL
K5AQ
K5NU
K5VT
K6AAW
K6ANP
K6CYX
K6FG
K6FM
K6GNX
K6NA
K6RK
K6SSS
K6TQ
K6VI
K6VX
K6XV
K7OX
K7RIE
K7ZBV
K9FD
K9JF
KA6W
KC7V
KE7AJ
KJ9I
KL7H/W6
KL7KJ
KN0Z
KN4VE
KO0Y
KV0Q
KV6I
KY0A
N0AT
N0BD
N0BG
N0DH
N0GCN
N0XA
N4CC
N5NMX
N5OLS
N6HC
N6JV
N6ND
N6QP
N6ZS
N7NG
N9US
NA0Y
NI6T
NN7X
NO0Y
NR0X
NW6N
NX0I
RA0FA
VE3EJ
VE3IY/7
VE7FPT
VK3EW
VK3QI
VK4SS
W0CP
W0NXL
W2UE
W2VO
W4VZM
W5FIX
W5OZI
W6AJJ
W6EA
W6JRY
W6JTI
W6KUT
W6NV
W6OSP
W6PBI
W6US
W6YA
W7AM
W7EYE
W7LR
W7OM
W7RV
W7TVF
W7YB
W9FRS
WA0GFS
WA0MVW
WA0PUJ
WA2AGO
WA2UUK
WA3EPT
WA4DDG
WA6HHQ
WA6ZJC
WA7HSQ
WB0O
WB9GGY
WB9GYW
WU6T
ZL1AIZ
ZL1ALZ
ZL1AQ
ZL1AXQ
ZL1MH
ZL1RS
ZL2JR
ZL4WA

ZL8RI Kermadec DXpedition
13 May 1996 - 0938Z - 160M SSB

ZL1HY
ZL1IU
ZL2AAA
ZL2AAG
ZL2JR

ZL8RI Kermadec DXpedition
13 May 1996 - 0938Z - 80M RTTY

ZL1HY

The first Zodiac went ashore at approximately 2000 UTC on May 3, 1996. Landing and transporting all equipment to the field site two miles away took all of the first day — it was winter there and got dark by 1730 local time.

Setting up proceeded well into the night and next day. We made the decision to wait until most of the antennas and stations were in place before starting the operation. The entire team worked very efficiently without distractions and at 0400 UTC, May 5, 1996 we commenced operations with four complete stations on the air.

The expedition team consisting of Ken, **ZL2HU** (Leader); Lee, **ZL2AL**; Chris, **ZL2DX**; Ron, **ZL2TT**; Peter, **ZL3GQ**; Bin, **JA3EMU** and AL; **WA3YVN (ZL3AH)** continued to enjoy good weather and good fortunes until May 11th when a strong gale damaged the 160m antennas and the next day when one of the

ZL8RI Kermadec DXpedition

13 May 1996 - 0938z - 80M CW

Page 1 of 2

5W0AN
7K1WLE
7K4PTY
7L1WII
7L2TVD
7L2VYT
7L3KMH
7M3HLQ
7N1CIR
7N1EDU
7N2KRX
AA0SQ
AA0VQ
AA2DU
AA2JN
AA2PQ
AA4G
AA4R
AA5F
AA6BR
AA6MC
AA6PI
AA6TT
AA6YQ
AA7UE
AA8OY
AA8SM
AA9AA
AB4SL
AB6BT
AB6LJ
AB6ZV
AB7II
AC0M
AC6EF
AC6SQ
AD1G
AD5Q
AF6S
AF6U
AH0W/W7
AI7B
AJ1H
AJ3K
AK0A
AK1N
AK4Z
AL7MX
AL7MZ
FK8FS
FK8GJ
FK8HC
FO5DV
HL5KY
JA0AOQ
JA0BJR
JA0BNX
JA0CRI
JA0CVW
JA0CWZ
JA0DAI
JA0DBQ
JA0DWY
JA0EOK
JA0FBI
JA0FNT
JA0GCI
JA0GJJ
JA0GRF
JA0GSB
JA0HXV
JA0MGR
JA0RUG
JA0RYN/7
JA0TJU
JA0UMV
JA0YUD
JA0ZED
JA1AA
JA1ADD
JA1ADN
JA1AS
JA1AUD
JA1BJS
JA1CEU
JA1CGM
JA1CHN
JA1CZI
JA1DOF
JA1DXR
JA1EOD
JA1FUI
JA1GFD
JA1GRM
JA1HBY
JA1HH
JA1HQT
JA1IDY
JA1IFP
JA1IOA
JA1JRK
JA1JTZ
JA1KAW
JA1KJK
JA1KQX
JA1KTZ
JA1LSP
JA1NQI
JA1NWD
JA1NXK
JA1OYY
JA1PMN
JA1PNA
JA1QUT
JA1SAV
JA1SBI
JA1SDV
JA1SFL
JA1SGK
JA1SGU
JA1SGX
JA1SHI
JA1SJV
JA1SKE
JA1SNF
JA1TRL
JA1UPT
JA1UQP
JA1VDJ
JA1VIT
JA1VLK
JA1VN
JA1VND
JA1WHG
JA1WLK
JA1WTZ
JA1XCZ
JA1XGQ
JA1XLU
JA1XQC
JA2AHH
JA2AKW
JA2ANA
JA2AQ
JA2BVK
JA2BY
JA2CXK
JA2DHG
JA2EJI
JA2EKP
JA2EPW
JA2FBY
JA2FJP
JA2FMW
JA2GAD
JA2IVY
JA2JNU
JA2JPA
JA2JRG
JA2JW
JA2KSP
JA2KVD
JA2LCP
JA2LHC
JA2MOG
JA2MYA
JA2NVY
JA2OFI
JA2OLJ
JA2OYC
JA2QCX
JA2QPY
JA2SGH
JA2SWF
JA2THS
JA2UKS
JA2VPO
JA2VTA
JA2WYN
JA2XKM
JA2XW
JA2ZZR
JA3AA
JA3AAW
JA3APL
JA3APU
JA3ASU
JA3BEA/9
JA3BVD
JA3BVJ
JA3CHD
JA3CRO
JA3CSZ
JA3DKQ
JA3DLE
JA3DY
JA3EP
JA3FGJ
JA3FYC
JA3HZT
JA3LDH
JA3MHV
JA3MLT
JA3MNP
JA3NJX
JA3NTE
JA3ONB
JA3PFZ
JA3PIS
JA3REK
JA3SHL
JA3TJA
JA3YPD
JA4ADK
JA4AHV
JA4BTD
JA4BXL
JA4CQS
JA4CZM
JA4DEN
JA4DLP
JA4DND
JA4EFV
JA4ENL
JA4EPE
JA4FKX
JA4FM/1
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NI0G
NI6T
NI6W
NN6W
NN7X
NO8D
NR0X
NS6C
NT0W

two diesel generators failed and could not be repaired. However the weather cleared up just in time to allow the team to pack and load all gear back on the ship for an on schedule departure May 14, 1996 at 0100 UTC.

Once again the weather remained good for one day but as the weather reports came in we knew that we better have our last meal of the trip.

For the next three days the 80-foot ship seemed to be dwarfed by the towering waves in the Pacific—and after we lost one of the two engines we began to have some doubts as to whether or not the ship was going to make it back to New Zealand under its own power. However, we did make it back under sail with a little engine power and a lot of wind power.

Take my word for it, there is nothing better than redundant propulsion systems even if it takes a little longer to get there.

QSO Statistics - We were active on all HF bands (160m through 10m including the WARC bands) and all primary communications modes (CW, SSB and RTTY).

The team made 34,000 QSOs including 1439 on RTTY and 303 on 160 meters with the following break down by continent and mode:

MODE	NA	SA	EU	AS	AF	OC
SSB	10,150	180	1,780	5,560	40	840
CW	6,800	60	1,770	5,100	20	260
RTTY	560	2	80	780	1	16

The above data shows a QSO split by of 54.6 percent on SSB, 41.2 percent CW and 4.2 percent RTTY.

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7N1GMK
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AC6DQ
AC6EF
AC6HY
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AD6C
AF6S
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C21RK
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CE1YI
CE2CC
CE2HIK
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CX3CE
CX4CR
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JA5BLB
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JA5YMK
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JA6GGD
JA6JPS
JA6MWF
JA6NQT
JA6UBK
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PA3EPN
PY3JZ
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TI5RLI
UA0LCZ
UA0ZBK/0
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VE1ZZ
VE3MFP
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JA8XDM
JA8XWY
JA8YQY
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JA9AVA
JA9BEK
JA9BRT
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VK2RD
VK2XH
VK2XN
VK3AJJ
VK3ATL
VK3BCY
VK3CSR
VK3DXI
VK3DZM
VK3EUZ
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VK3SX
VK3TZ
VK3UY
VK4BER
VK4BS
VK4CV
VK4EFX
VK4EJ
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VK4IK
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JE3GEL
JE4CPC
JE4WKR
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JE7MQB
JE7RJS
JE8IGW
JE8XRF
JF1HOH
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JF1QFV
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WA0GFS
WA0PUJ
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WA6F
WA6IUM
WA6ZJC
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WA7FOE
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WA7UTM
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JH8YPY
JH9GAT
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JI1GYC
JI1NJC
JI1PGO
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JI2FAP
JI2FHR
JI4FMF
JI4POR
JI7DUD
JI8KNF
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JJ1TEA
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ZL1DU
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JJ3HGJ
JJ3LLT
JJ3PRT
JJ7XTV
JJ8SKA
JK0MKX
JK1OPL
JK1QHK
JK3AGC
JK3BLA
JK3GHE
JK4JVV
JL1ARF
JL1BFC
JL1SAM
JL1WPQ
JL2PQV
JM1NKT
JM1PPQ
JM1WAA
JM1XCW
JM2GMO
JN1MKU
JN3RBE
JO1EYT
JO1WKO
JP1IOF
JP1QDO
JP2MYJ
JP3VCC
JQ1BNA
JQ1VNM
JR1BLX
JR1BUV
JR1CCT
JR1CUY
JR1CWY
JR1DUP
JR1HFI
JR1HHF
JR1MLU
JR1MVA
JR1RCQ
JR1SKL
JR1TNE
JR2CFD
JR2CQS
JR2IKU
JR2KDN
ZL2AMI
ZL2AOH
ZL2AOI
ZL2AQY
ZL2AUB
ZL2AXI
ZL2BA
ZL2BCZ/P
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JR6PGB
JR7BDQ
JR7DXA
JR7TEQ
JR7XOD
JR8AJR
JR8FEK
JR8YAO
K0II
K0MVL/KL7
K0RC
K0UH
K0WLU
K0WWG
K1NJH/6
K1UO
K1ZM
K2DOX
K2EWB
K2FL
K2IGW
K2JMY
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ZL4BO

ZL8RI Kermadec DXpedition

13 May 1996 - 0938Z - 80M SSB

Page 2 of 2

K8CX
K8GG
K8YSE
KA0TKU
KA1DIG
KA5DGH
KA5Q
KA5Y
KB0AUK
KB3X
KB9SI
KC2KU
KC4OR
KC5CP
KC6X
KC7LU
KC7V
KD0ZR
KD7E
KD7H
KD9OT
KE6CF
KE7CX
KE7X
KF3P
KO1F
KO6KD
KO6PL
KO6SV
KO6WO
KO6XI
KO6YC
KP4WI
KS1G
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KX3Q
KY0A
LU1FA
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LU8EEM
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NO8D
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NT5C
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NX7K
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VK5EE
VK5MS
VK5WO
VK6ABS
VK6APZ
VK6BY
VK6HD
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VK7YP
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W7/PA0OTC
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WB6ICJ
WB6JXJ
WB6MBF
WB6OKK
WB6RZK
WB7DPM
WB7EWC
WB7SRW
WB7WSB
WB9Z
WD5K
WD6EKR
WF5T
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ZL4TV
ZL4WA
ZL6CC

The feedback that I have received from the DX community indicates that **ZL8RI** was a successful expedition.

Personally, I enjoyed the company of the entire expedition team and the warm hospitality that they and their families extended me in New Zealand.

Being able to personally achieve an average of 1000 QSOs per day including RTTY and low band operation has given me a good sense of accomplishment.

All QSLs will be handled directly by Ken Holdom, **ZL2HU** from New Zealand. Expect cards to be mailed sometime in August.

Editor's note: Stations that do not appear in the log or have broken calls are advised that the decision to confirm the particular contact is strictly left up to the Kermadec team and the QSL manager, ZL2HU.

The log provided here by the Low Band Monitor is not official - the official log and final word are ZL2HU's.

Equipment Donors - This expedition would not have been possible without the support of many equipment manufacturers.

The primary equipment consisted of *Yaesu* radios and linear amplifiers; *Nagara* and *Cushcraft,*

The *Radio Works* Super Delta Loop and *K9AY* 160/80 Expedition Antenna; *Timewave* DSP filters; *LinkPlus LinkMate Lincompex* units; *ZJ Electronics* low band accessories and *Heil Sound* boom sets.

Conclusion - My sincere thanks go to the world wide DX community and the many clubs, foundations, DX News letters and equipment manufacturers that helped make this DXpedition possible by providing much needed finances, equipment and expert advise to the expedition team.

It is with utmost respect that I say thank you. For me the Kermadec dream is now a reality and I can finally say, "Been there....Done That".

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LOW BAND MONITOR POWER SPOTS - JULY 1996

TNX: N8BJQ - K1ZM - K7LFY - VE7BS - WO1P - AB0X - WA0GFS - K5AQ - W0ZV

160 METERS

1830.2	OM5XX	31-Jul-96	0120Z
1832.5	DJ2BW	31-Ju--96	0238Z
1831.0	F5IN	31-Jul-96	0307Z
1830.5	HB9FAF	29-Jul-96	0239Z
1828.5	DJ2BW	29-Jul-96	0245Z
1826.0	5W0JB	29-Jul-96	1030Z
1828.5	SM6MCW	28-Jul-96	0053Z
1831.2	SM5EDX	28-Jul-96	0101Z
1830.2	S53BM	28-Jul-96	0119Z
1830.1	S54A	28-Jul-96	0136Z
1834.0	PY2DP	28-Jul-96	0149Z
1834.0	G3SED	28-Jul-96	0152Z
1835.0	OX7C	28-Jul-96	0243Z
1842.2	OZ1LXJ	28-Jul-96	0245Z
1833.0	S51IX	28-Jul-96	0411Z
1826.0	5W0JB	28-Jul-96	1147Z
1804.8	ZF2SJ	27-Jul-96	0401Z
1826.0	5W0JB	27-Jul-96	1028Z
1834.2	CO2EG	24-Jul-96	0102Z
1834.0	CU2CE	22-Jul-96	0046Z
1829.5	SP2FAX	22-Jul-96	0130Z
1827.4	F6CNI	22-Jul-96	0145Z
1833.0	J28JA	22-Jul-96	0230Z
1832.0	ZL2JR	22-Jul-96	0928Z
1830.3	4M5LR	21-Jul-96	0206Z
1831.9	DJ2BW	21-Jul-96	0350Z
1845.0	CX2CB	20-Jul-96	0958Z
1837.0	ZK1AAU	20-Jul-96	1157Z
1848.0	EM1Ka	20-Jul-96	1137Z
1842.0	7X5JF	19-Jul-96	0001Z
1830.0	J28JA	19-Jul-96	0231Z
1831.1	SV8JE	18-Jul-96	0157Z
1837.0	ZK1AUU	18-Jul-96	1207Z
1832.0	OZ7C	17-Jul-96	0127Z
1831.0	OZ7YY	17-JU1-96	0255Z
1834.0	ZK1AUU	16-Jul-96	0902Z
1827.0	VK4YB	16-Jul-96	1203Z
1837.0	ZK1AAU	16-Jul-96	1218Z
1831.0	OM6HQ	14-Jul-96	0129Z
1829.7	VE3OSZ	14-Jul-96	0809Z
1831.3	SM5EDX	13-Jul-96	0127Z
1828.8	DJ2BW	13-Jul-96	0131Z
1825.8	G3UOF	13-Jul-96	0141Z
1830.8	SV8JE	13-Jul-96	0148Z
1828.6	G4BWP	13-Jul-96	0151Z
1838.2	CX2CB	13-Jul-96	0201Z
1838.2	CP6VP	13-Jul-96	0201Z
1838.0	PY1LL	13-Jul-96	0203Z
1838.2	DL6ET	13-Jul-96	0203Z
1832.9	OZ8RO	13-Jul-96	0204Z
1831.5	SM6MCW	13-Jul-96	0210Z
1830.0	HA8BE	13-Jul-96	0211Z
1833.5	DJ7AA	13-Jul-96	0214Z
1826.0	DL6ET	13-Jul-96	0231Z
1832.0	GU/DL5LYM	13-Jul-96	0239Z
1825.7	DL6ET	13-Jul-96	0257Z
1832.3	IV3PRK	13-Jul-96	0303Z
1828.4	DL3KDV	13-Jul-96	0304Z
1829.3	SV8JE	13-Jul-96	0305Z
1833.7	IV3PRK	13-Jul-96	0308Z
1830.2	DJ7MI	13-Jul-96	0314Z
1831.9	ZK1AAU	13-Jul-96	1036Z
1832.0	VK3DXI	13-Jul-96	1040Z
1850.0	ON4UBA	13-Jul-96	1411Z
1827.0	KC6BP	11-Jul-96	0927Z
1831.0	EU6AF	10-Jul-96	0043Z
1835.0	EI6IF	10-Jul-96	0052Z
1826.0	KC6BP	10-Jul-96	1038Z
1826.0	V63CK	6-Jul-96	1220Z
1831.0	G3PQA	4-Jul-96	0310Z
1831.0	SM5EDX	3-Jul-96	0056Z
1831.0	EM1KA	2-Jul-96	0014Z
1829.0	CX1NT	2-Jul-96	0019Z
1837.0	9A2TW	2-Jul-96	0032Z
1822.0	PY5CC	2-Jul-96	0034Z
1837.0	HA8BE	2-Jul-96	0123Z
1837.0	EI6IF	2-Jul-96	0211Z

80 METERS

3503.0	TK/S53R	31-Jul-96	2132Z
3799.0	ZD9CR	31-Jul-96	2205Z
3511.0	I0ER/IS0	31-Jul-96	2329Z
3792.5	EA1DLU	29-Jul-96	0000Z
3506.0	OM5TP	29-Jul-96	0145Z
3505.5	5W0DG	29-Jul-96	0808Z
3506.0	ZL1ALZ	29-Jul-96	0833Z
3517.0	LU8APT	29-Jul-96	0837Z
3507.5	5W0TR	29-Jul-96	0937Z
3795.1	ZP5KW	28-Jul-96	0555Z
3795.1	8R1AK	28-Jul-96	0933Z
3507.1	5W0JB	27-Jul-96	0944Z
3507.1	5W0JB	27-Jul-96	1051Z
3760.0	CY7TUB	26-Jul-96	0348Z
3507.0	5W0JB	26-Jul-96	1025Z
3790.0	9K2MU	26-Jul-96	2048Z
3503.1	A35PM	25-Jul-96	1006Z
3503.0	A35PM	25-Jul-96	1051Z
3506.3	F5IN	24-Jul-96	0440Z
3795.4	VP9KK	23-Jul-96	0150Z
3798.4	3D2RW	23-Jul-96	1108Z
3791.8	KG4AU	22-Jul-96	0032Z
3789.3	CU9B	22-Jul-96	0045Z
3788.0	OI0RJ	22-Jul-96	0050Z
3800.0	ES6DO	22-Jul-96	0051Z
3796.3	SM7DLZ	22-Jul-96	0059Z
3790.6	ON7DU	22-Jul-96	0113Z
3505.0	PY2DP	22-Jul-96	0822Z
3517.0	LU8APT	22-Jul-96	0826Z
3505.0	ZL2UW	22-Jul-96	0853Z
3505.0	LU4FD	22-Jul-96	0920Z
3506.0	VK4CY	22-Jul-96	0928Z
3504.0	ZL1GG	22-Jul-96	0931Z
3503.3	ZL2UW	22-Jul-96	1117Z
3794.8	4M5LR	21-Jul-96	0033Z
3796.9	A92BE	21-Jul-96	0048Z
3794.7	4M5LR	21-Jul-96	0142Z
3796.0	SM7DLZ	21-Jul-96	2343Z
3502.6	ZK1AAU	20-Jul-96	1127Z
3799.0	7Q7RM	20-Jul-96	1920Z
3799.5	VK5PO	20-Jul-96	1937Z
3505.0	CT1ELP	20-Jul-96	2340Z
3795.0	YJ0ARW	19-Jul-96	1121Z
3790.0	SM7DLZ	18-Jul-96	0153Z
3792.9	OH5LF/4	18-Jul-96	0155Z
3788.0	ZD8Z	14-Jul-96	0050Z
3516.2	VC6JO	14-Jul-96	0536Z
3503.0	OY1CT	13-Jul-96	0152Z
3509.6	GU/DL5LYM	13-Jul-96	0201Z
3510.9	OM0WR	13-Jul-96	0218Z
3793.5	GI0UJG	13-Jul-96	0220Z
3501.8	4X6PO	13-Jul-96	0221Z
3504.9	OM3EY	13-Jul-96	0227Z
3799.5	3V8BB	13-Jul-96	0256Z
3507.7	OZ8RO	13-Jul-96	0310Z
3799.5	HB9VW	13-Jul-96	0314Z
3501.9	GU/DL5LYM	13-Jul-96	0359Z
3789.9	PA0ECV	13-Jul-96	0406Z
3502.1	GU/DL5LYM	13-Jul-96	0420Z
3795.0	CX2CB	13-Jul-96	1032Z
3506.8	YJ0ARW	13-Jul-96	1146Z
3794.0	FO0ALE	9-Jul-96	1139Z

40 METERS

7048.0	A61AS	31-Jul-96	2031Z
7045.0	JT1BV	31-Jul-96	2036Z
7054.0	SU1GS	31-Jul-96	2205Z
7008.2	OK2PAY	30-Jul-96	0010Z
7016.9	CP8AK	30-Jul-96	0107Z
7186.0	VY2SS/VE2	29-Jul-96	0025Z
7005.2	5W0DG	29-Jul-96	0505Z
7005.6	5W0DG	29-Jul-96	0843Z
7010.0	FK8HC	29-Jul-96	0849Z
7006.6	5W0BS	29-Jul-96	0948Z
7006.0	9V1ZB	29-Jul-96	1150Z
7005.1	ZD8DEZ	28-Jul-96	0047Z

80 METERS

7007.5	UR7AA	28-Jul-96	0105Z
7008.3	9H0A	28-Jul-96	0149Z
7011.8	EU5F	28-Jul-96	0152Z
7029.9	C50BI	28-Jul-96	0245Z
7002.6	EJ1D	28-Jul-96	0252Z
7009.3	LY96RMD	28-Jul-96	0259Z
7011.4	Z37CEF	28-Jul-96	0259Z
7012.8	OL3Z	28-Jul-96	0300Z
7011.4	Z37CEF	28-Jul-96	0303Z
7014.7	GU6D	28-Jul-96	0304Z
7092.0	ZD7WRG	28-Jul-96	0312Z
7092.0	GU6D	28-Jul-96	0313Z
7002.7	9H3UD	28-Jul-96	0342Z
7009.0	VK0WH	28-Jul-96	0551Z
7008.0	5W0JB	28-Jul-96	0611Z
7011.5	M6T	28-Jul-96	0612Z
7007.9	5W0JB	28-Jul-96	0640Z
7011.1	ZX1A	28-Jul-96	0718Z
7011.9	VK4MZ	28-Jul-96	0733Z
7005.3	ZD8DEZ	28-Jul-96	0832Z
7008.6	5W0BS	28-Jul-96	1053Z
7004.0	A35PM	28-Jul-96	1118Z
7006.9	3W5RS	28-Jul-96	1510Z
7002.8	OH0KMG	27-Jul-96	0206Z
7005.9	LX/DL1HQE	27-Jul-96	0344Z
7004.3	5W0JB	27-Jul-96	0829Z
7009.3	RW0MM	27-Jul-96	0836Z
7005.1	A35PM	27-Jul-96	1010Z
7006.0	KH2D	27-Jul-96	1128Z
7004.0	FK8HC	27-Jul-96	1226Z
7003.1	OH0KMG	27-Jul-96	2329Z
7004.0	YO2BV	26-Jul-96	0245Z
7002.0	EM1KA	26-Jul-96	0405Z
7005.0	GM3POI	26-Jul-96	0440Z
7006.0	5W0JB	26-Jul-96	0858Z
7001.9	A35PM	26-Jul-96	0907Z
7007.9	3D2RW	26-Jul-96	0928Z
7015.0	FK8HC	26-Jul-96	1057Z
7003.0	A35PM	26-Jul-96	1214Z
7001.2	OH0KMG	26-Jul-96	1831Z
7002.0	9H3UD	26-Jul-96	1936Z
7004.3	ZK3YA	25-Jul-96	1048Z
7008.0	VK8AV	25-Jul-96	1048Z
7010.1	A35PM	25-Jul-96	1153Z
7001.3	YO2LDC	24-Jul-96	0053Z
7004.7	A35PM	24-Jul-96	0941Z
7010.0	FK8HC	24-Jul-96	0951Z
7004.5	A35PM	24-Jul-96	1031Z
7006.9	3D2RW	24-Jul-96	1031Z
7003.4	NH8/N8CC	24-Jul-96	1137Z
7006.1	A35PM	24-Jul-96	1227Z
7060.0	ZD7WRG	24-Jul-96	2213Z
7004.2	YO3CTK	23-Jul-96	0237Z
7001.0	ZK3YA	23-Jul-96	1058Z
7008.0	ZA1TAG	23-Jul-96	2259Z
7003.4	SV2CUI	22-Jul-96	0304Z
7004.4	3B8CF	22-Jul-96	0312Z
7021.8	C50A	21-Jul-96	0002Z
7009.1	UN7L	21-Jul-96	0113Z
7003.7	KG8CO/KH8	21-Jul-96	0914Z
7007.9	FK8GY	20-Jul-96	1014Z
7002.5	CR8A	20-Jul-96	2130Z
7002.3	ZD8Z	19-Jul-96	0150Z
7090.0	YT1AD	19-Jul-96	2349Z
7014.0	US7IB	18-Jul-96	0225Z
7005.0	ON3EY	18-Jul-96	0301Z
7001.0	T77C	18-Jul-96	0502Z
7002.7	OH0BVF	14-Jul-96	0138Z
7016.0	ER7A	14-Jul-96	0201Z
7064.2	5N0T	14-Jul-96	0214Z
7020.3	R2/DK2OY	14-Jul-96	0221Z
7025.0	3V8BB	14-Jul-96	0240Z
7009.3	GU/DL5LYM	13-Jul-96	0056Z
7000.8	SV2CUI	13-Jul-96	0122Z
7005.3	EG1US	13-Jul-96	0230Z
7011.2	YO3GDA	13-Jul-96	0301Z
7007.0	TK5NI	13-Jul-96	0543Z